Mezzanine Inspection Report (Scoping)

Date: 11/7/144	**Station Name:** E08 - PG Plaza	**Mezzanine #:** 078	**Completed By:** Mike Butler

Summary

Video scoping and pull string installation was completed for communication duct in lower faregate array. In addition, video scoping was completed for power duct in lower faregates. It was not possible to complete video scoping or pull string installation in the upper faregate array due to collapsed ducts in comm. and power ducts. Pull string installation and video scoping could not be completed in power duct between the Kiosk and AFC Panel due to collapses and standing water.

Scanning was conducted to identify a new power route between the Kiosk and AFC Panel. A new power duct is proposed to run directly from Kiosk to Room 210 where the AFC Panel is situated. The duct will require two new handholes and a new junction box. A new conduit is proposed to run overhead from the junction box where it will go up the wall, across the ceiling and then feed into the AFC Panel. Refer to photos and drawings for further details.

Photos and drawings are for reference purposes only; see new schematic drawing/proposed pathway on last page.

Scoping of Faregate Array(s)

Task	Yes/No	Notes
Communications Duct – Upper Faregate Array (~~8~~ 5 faregates)		
Was video scoping completed for the entire duct run?	No	Refer to "WMATA PG Station Mezz 078 Upper Comm Duct Video.avi"
Were pull strings installed at all faregates in the array?	No	
Were there any obstructions or blockages? Provide details of type and specific location.	Yes	Duct collapsed at 10' from kiosk.
Is the duct at capacity? Provide additional details about the dimensions of ducts and number of wires.	N/A	
Communications Duct - Lower Faregate Array (~~8~~ 6 faregates)		
Was video scoping completed for the entire duct run?	Yes	Refer to "WMATA PG Station Mezz 078 Lower Comm Duct Video.avi"
Were pull strings installed at all faregates in the array?	Yes	
Were there any obstructions or blockages? Provide details of type and specific location.	No	
Is the duct at capacity? Provide additional details about the dimensions of ducts and number of wires.	No	6" duct is not at capacity, less than 10 wires.
Power Duct – Upper Faregate Array (~~8~~ 5 faregates)		
Was video scoping completed for the entire duct run?	No	Refer to "WMATA PG Station Mezz 078 Upper Power Duct Video.avi"
Were there any obstructions or blockages? Provide details of type and specific location.	Yes	The duct has multiple collapses.
Is the duct at capacity? Provide additional details about the dimensions of ducts and number of wires.	N/A	
Power Duct - Lower Faregate Array (~~8~~ 6 faregates)		
Was video scoping completed for the entire duct run?	Yes	Refer to "WMATA PG Station Mezz 078 Lower Power Duct Video.avi"
Were there any obstructions or blockages? Provide details of type and specific location.	No	
Is the duct at capacity? Provide additional details about the dimensions of ducts and number of wires.	No	3" duct, less than 10 wires.

Scoping of Power Duct - Kiosk to AFC Panel		
Task	**Yes/No**	**Notes**
Kiosk to Handhole (Distance 68')		
Was video scoping completed for the entire duct / conduit run?	No	Refer to "WMATA PG Station Mezz 078 Power Duct Video.avi"
Was pull string installed?	No	
Were there any obstructions or blockages? Provide details of type and specific location.	Yes	Collapsed duct at 30' from kiosk.
Is the duct / conduit at capacity? Provide additional details about the dimensions of duct / conduit and number of wires.	N/A	
Handhole to AFC Panel (Distance 48')		
Was video scoping completed for the entire duct / conduit run?	No	Video scoping could not be completed due to standing water inside handhole.
Was pull string installed?	No	
Were there any obstructions or blockages? Provide details of type and specific location.	Yes	The duct was blocked near handhole.
Is the duct / conduit at capacity? Provide additional details about the dimensions of duct / conduit and number of wires.	N/A	
Observations / Issues / Next Steps		
- Many of the in-floor ducts have standing water and corrosion. - The proposed duct is 90' and proposed conduit is 20'.		

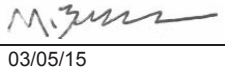
Sign Off		
	GFP Representative	**WMATA PRGM**
Name:	Mike Butler	
Signature:		
Date:	03/05/15	

Photo #1 – Existing and proposed ducts on mezzanine floor

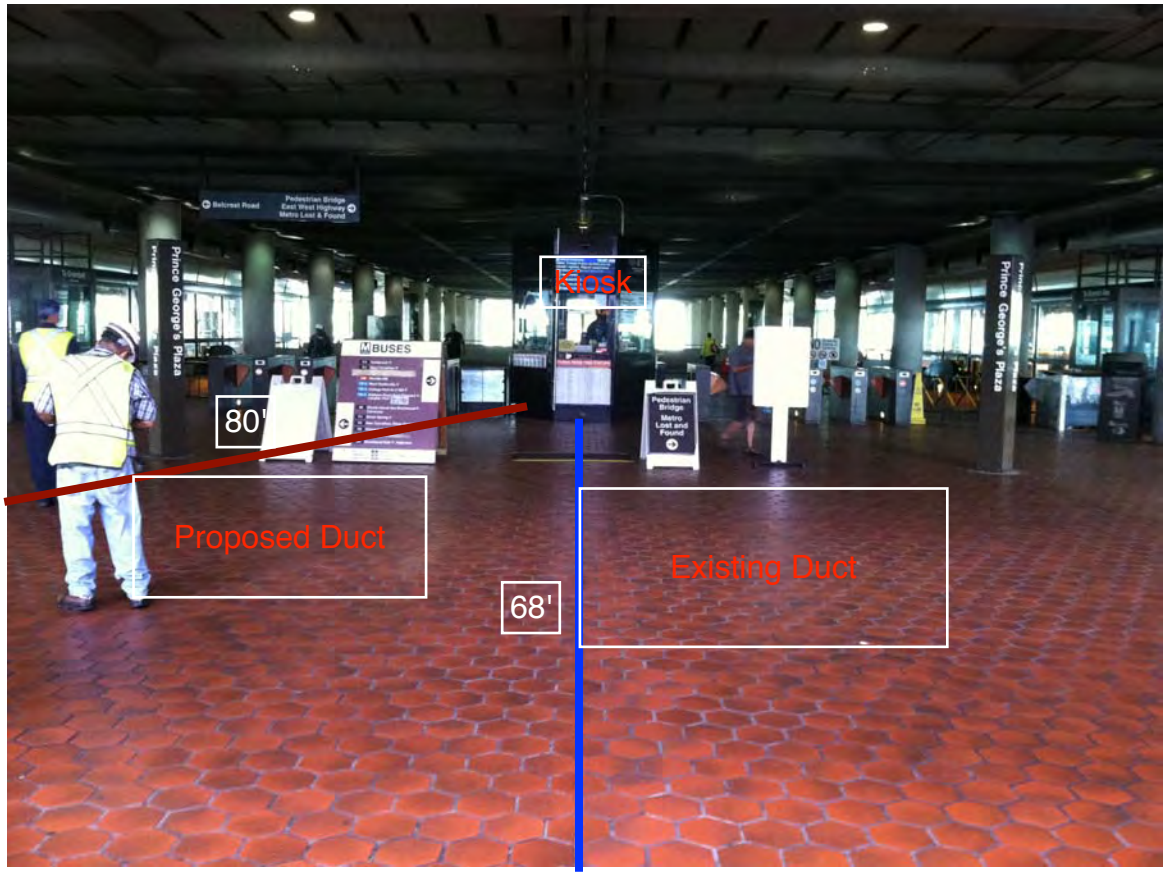
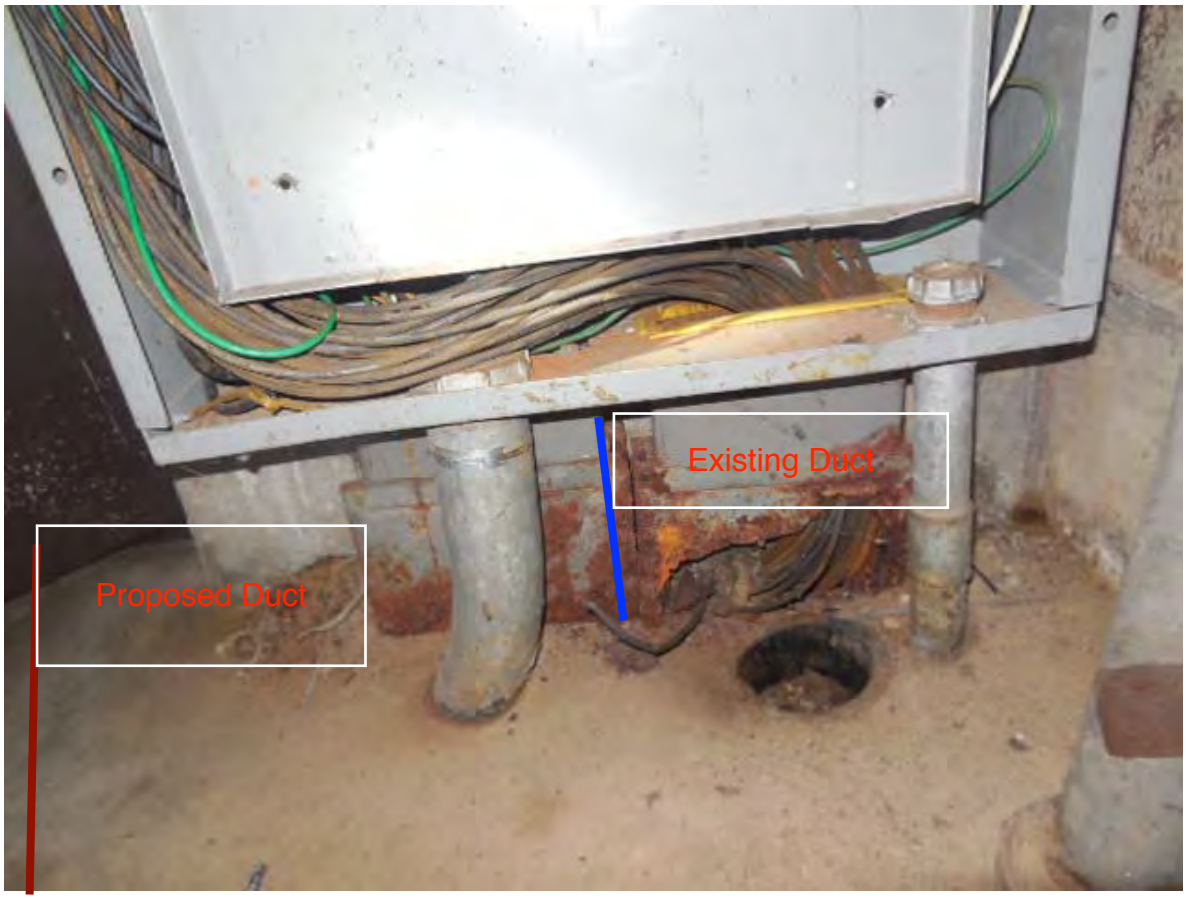


Photo #2 – Handhole adjacent to fare vending machines on mezzanine floor

Photo #3 – Condition of Handhole.

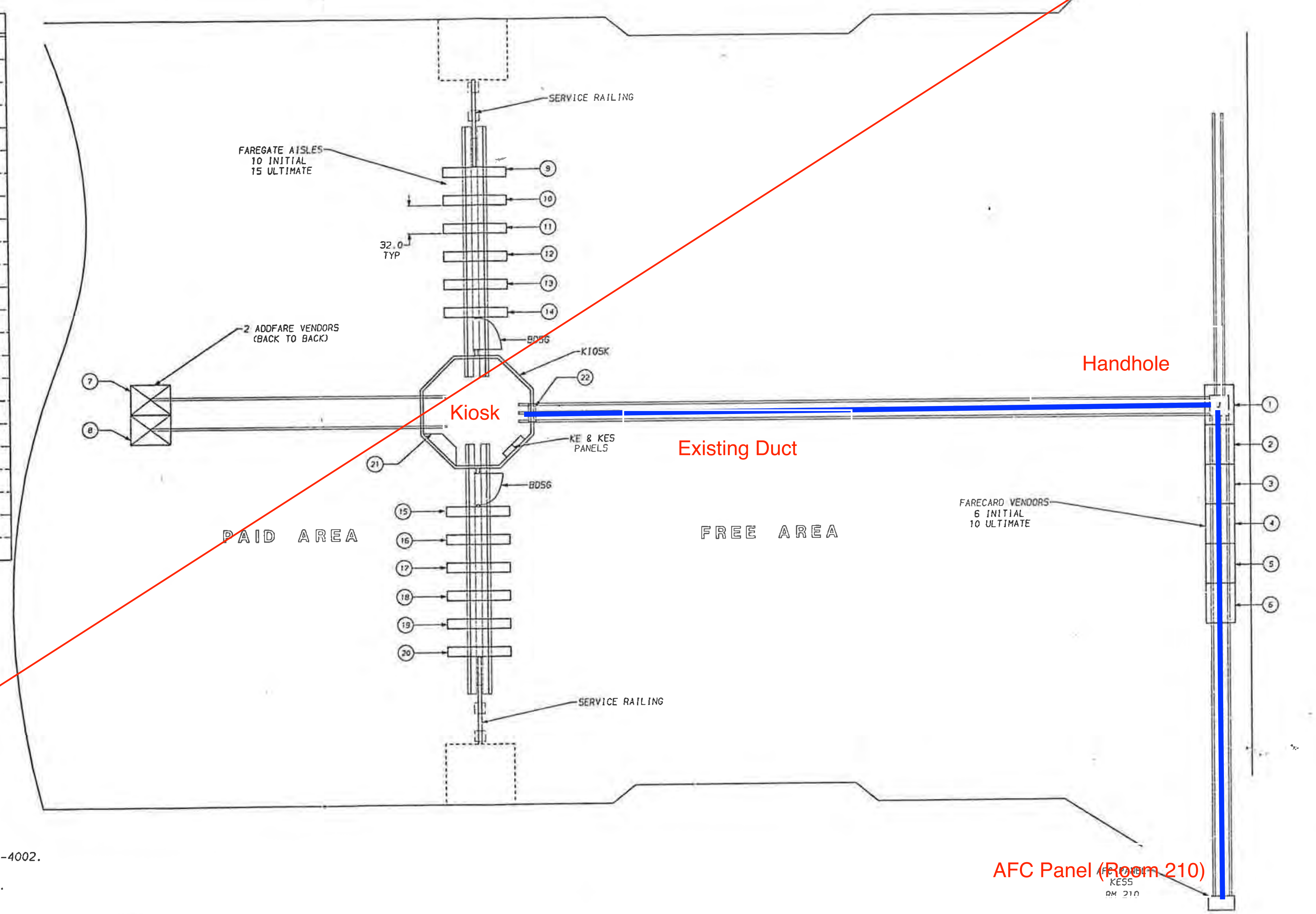
Photo #4 – Existing duct and proposed duct in Room 210



EXISTING DUCT LAYOUT

See new schematic drawing/proposed pathway on last page

ITEM	NAME	S/N	PANEL AFC	1/35 BREAKER
1	VENDOR	1940	KESS	7
2	VENDOR	1933	KESS	9
3	VENDOR	1941	KESS	11
4	VENDOR	1935	KESS	13
5	VENDOR	1939	KESS	15
6	VENDOR	1942	KESS	17
7	ADDFARE	2827	KESS	21
8	ADDFARE	2838	KESS	19
9	ENTRY GATE	FUTURE	KESS	N/A
10	REV. GATE	7934	KESS	2
11	REV. GATE	7909	KESS	4
12	REV. GATE	7930	KESS	6
13	REV. GATE	7938	KESS	8
14	EXIT GATE	4835	KESS	N/A
15	ENTRY GATE	3837	KESS	10
16	REV. GATE	7931	KESS	12
17	REV. GATE	7915	KESS	14
18	REV. GATE	7920	KESS	16
19	REV. GATE	7928	KESS	18
20	REV. GATE	7913	KESS	N/A
21	SMADS	8803	KE	1
22	S. CLOCK	98918	KE	6
23	EMERGENCY LT		KE	4



NOTES:

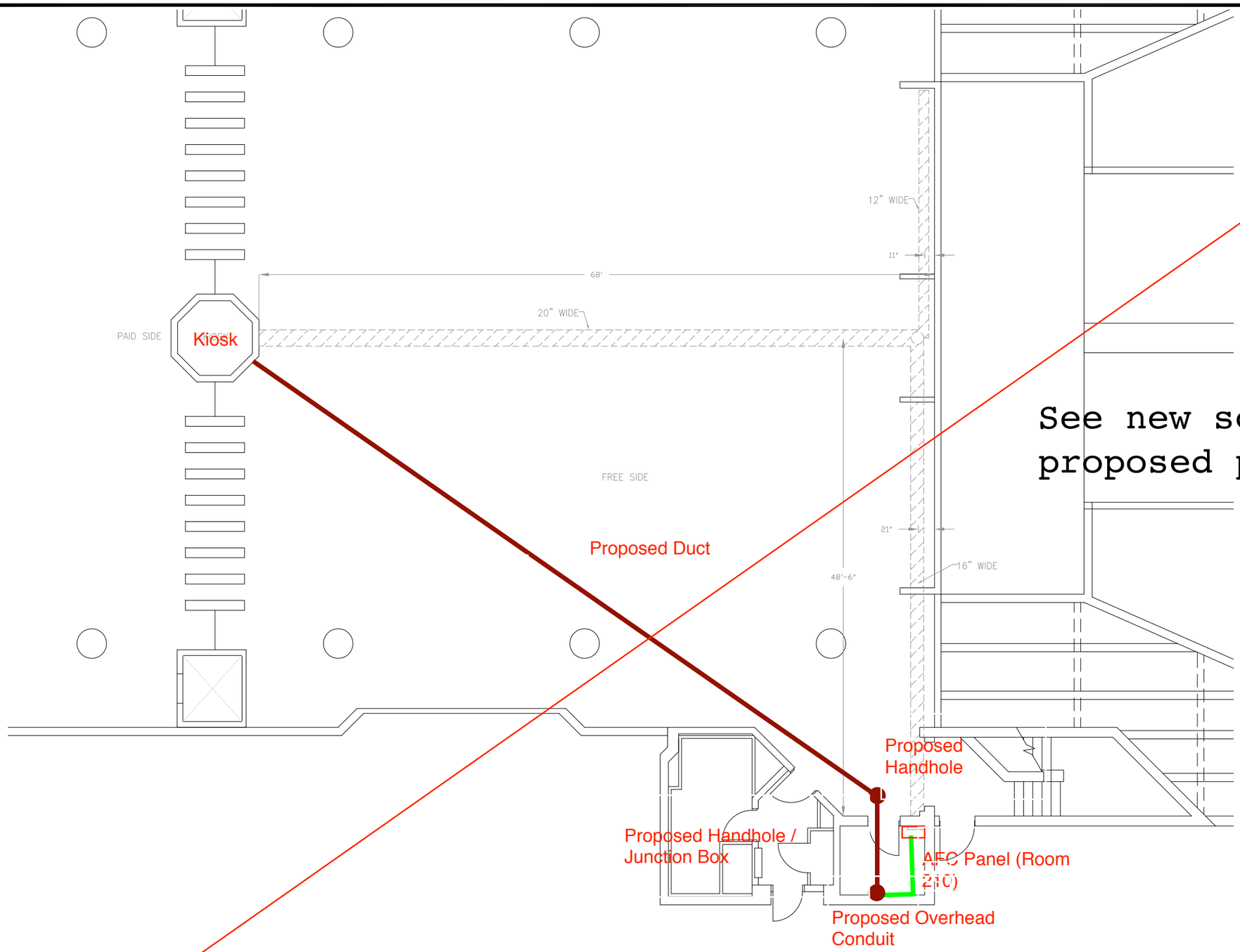
1. FOR VENDOR AND ADDFARE INSTALLATION SEE 931-4002.
2. FOR SMADS INSTALLATION SEE 931-4001.
3. FOR ENTRY, EXIT AND REVERSIBLE GATE INSTALLATION SEE 931-4003.
4. FOR BI-DIRECTIONAL SERVICE GATE INSTALLATION SEE 931-4005.
5. FOR A TYPICAL MEZZANINE INSTALLATION SEE 931-4000.
6. CIRCUIT BREAKERS WITH COMMON NEUTRAL:
   3,7 & 9; 13,15 & 17; 19 & 21; 2,4 & 6; 10 & 12; 14,16 & 18.

MEZZANINE NO. 78

REVISIONS: A — INITIAL RELEASE

CUBIC — PRINCE GEORGES STATION MEZZANINE LAYOUT — 931-4024 — A

DO NOT SCALE DRAWING



PLAN NOTES:

1. DIMENSIONS ARE IN FEET AND INCHES.
2. DIMENSIONS ARE FOR REFERENCE ONLY.
3. EXISTING IN-FLOOR DUCTS/CONDUITS WERE INDENTIFIED USING A PORTABLE GPR SCANNING DEVICE.
4. THE SCANNING COVERAGE IS LIMITED TO THE MEZZANINE FLOOR ONLY.
5. GPR SCANNING HAS THE FOLLOWING LIMITATIONS: (i) 12 INCHES VISIBLE SCANNING DEPTH; (ii) VISIBILITY BEYOND CONGESTED OR NEAR SURFACE REINFORCEMENT LAYERS; (iii) DETECTION OF PVC AND OTHER NON-METALLIC OBJECTS (iv) DETERMINATION OF SIZE AND EXTENTS OF SUBSURFACE ANOMALIES SUCH AS SLAB VOIDS OR REBAR SIZES; AND (v) VISIBILITY WHEN VARIABLE MOISTURE CONDITIONS EXIST IN THE SUBSTRATE.

LEGEND:

EXISTING DUCT

HANDHOLE HH

See new schematic drawing/ proposed pathway on last page

1 E-100 **PG PLAZA STATION**
SCALE: NOT TO SCALE

CONTRACT NO. XXXXXX

DESIGNED	C. LOOSE	02-15	DATE
DRAWN	C. LOOSE	02-15	DATE
CHECKED	M. BUTLER	02-15	DATE
APPROVED			DATE

REFERENCE DRAWINGS

NUMBER	DESCRIPTION

REVISIONS

DATE	BY	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES
OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM

APPROVED _____

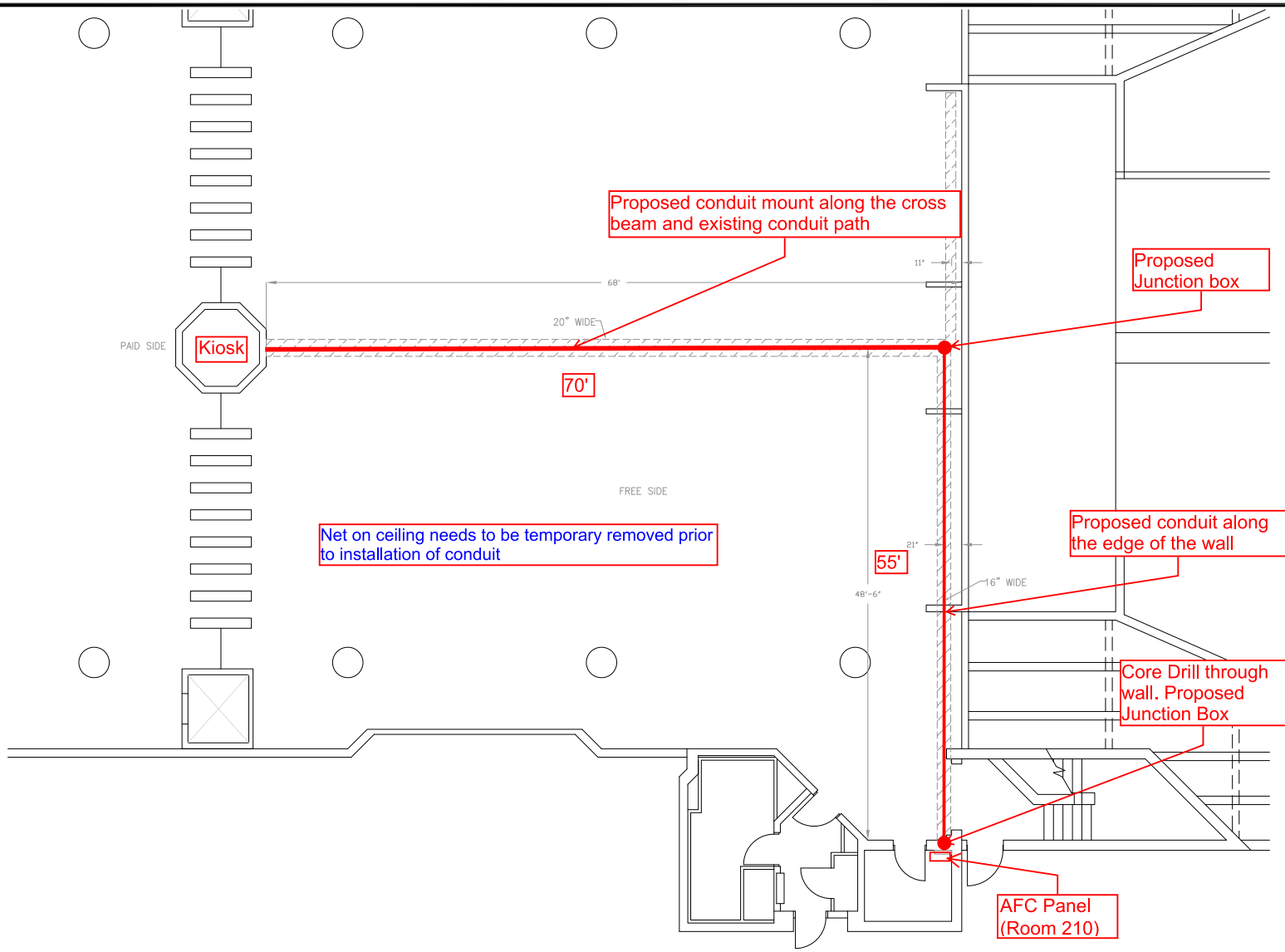
GFP A Gannett Fleming/Parsons JOINT VENTURE

SUBMITTED _____ PROJECT MANAGER

15-NEPP-01
IN - FLOOR DUCT INSPECTIONS
E08 PG Plaza
PROPOSED POWER DUCT/CONDUIT RUN

SCALE: NOT TO SCALE

DRAWING NO.: E08-E-100 XXX



PLAN NOTES:

1. DIMENSIONS ARE IN FEET AND INCHES.
2. DIMENSIONS ARE FOR REFERENCE ONLY.
3. EXISTING IN-FLOOR DUCTS/CONDUITS WERE INDENTIFIED USING A PORTABLE GPR SCANNING DEVICE.
4. THE SCANNING COVERAGE IS LIMITED TO THE MEZZANINE FLOOR ONLY.
5. GPR SCANNING HAS THE FOLLOWING LIMITATIONS: (i) 12 INCHES VISIBLE SCANNING DEPTH; (ii) VISIBILITY BEYOND CONGESTED OR NEAR SURFACE REINFORCEMENT LAYERS; (iii) DETECTION OF PVC AND OTHER NON-METALLIC OBJECTS (iv) DETERMINATION OF SIZE AND EXTENTS OF SUBSURFACE ANOMALIES SUCH AS SLAB VOIDS OR REBAR SIZES; AND (v) VISIBILITY WHEN VARIABLE MOISTURE CONDITIONS EXIST IN THE SUBSTRATE.

LEGEND:

EXISTING DUCT

HANDHOLE HH

1 E-100 **PG PLAZA STATION**
SCALE: NOT TO SCALE

CONTRACT NO. XXXXXX

DESIGNED C. LOOSE 02-15 DATE
DRAWN C. LOOSE 02-15 DATE
CHECKED M. BUTLER 02-15 DATE
APPROVED _____ DATE

REFERENCE DRAWINGS	
NUMBER	DESCRIPTION

REVISIONS		
DATE	BY	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES
OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM

APPROVED _____

GFP A Gannett Fleming/Parsons JOINT VENTURE

SUBMITTED _____ PROJECT MANAGER

15-NEPP-01
IN - FLOOR DUCT INSPECTIONS
E08 PG Plaza
PROPOSED POWER DUCT/CONDUIT RUN

SCALE: NOT TO SCALE
DRAWING NO.: E08-E-100
XXX

Mezzanine Inspection Report (Scoping)

Date: 11/06/2014	**Station Name:** E09 College Park	**Mezzanine #:** 079	**Completed By:** Dion Small

Summary

Video scoping and pull string installation was completed for the faregate array communication duct and all segments of the power duct between the Kiosk and AFC Panel. Video scoping was also completed for the faregate array power duct.

Scanning is not required for this mezzanine.

Scoping of Faregate Array(s)

Task	Yes/No	Notes
Communications Duct – Faregate Array (~~6~~ 7 Gates)		
Was video scoping completed for the entire duct run?	Yes	Refer to WMATA College Park Comm 3inch Duct Video.avi and WMATA College Park Comm 6inch Duct Video.avi files.
Were pull strings installed at all faregates in the array?	Yes	
Were there any obstructions or blockages? Provide details of type and specific location.	No	
Is the duct at capacity? Provide additional details about the dimensions of ducts and number of wires.	No	1” x 6” walker duct: less than 10 wires
Power Duct - Faregate Array (~~6~~ 7 Gates)		
Was video scoping completed for the entire duct run?	Yes	Refer to WMATA College Park Power 6inch Duct Video.avi file.
Were there any obstructions or blockages? Provide details of type and specific location.	No	
Is the duct at capacity? Provide additional details about the dimensions of ducts and number of wires.	No	1” x 6” walker duct: less than 10 wires

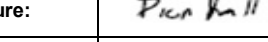
Scoping of Power Duct - Kiosk to AFC Panel		
Task	**Yes/No**	**Notes**
Kiosk to Handhole 1 (Distance =45')		
Was video scoping completed for the entire duct / conduit run?	Yes	Refer to WMATA College Park Kiosk to 1st Handhole Duct Video.avi file.
Was pull string installed?	Yes	
Were there any obstructions or blockages? Provide details of type and specific location.	No	
Is the duct / conduit at capacity? Provide additional details about the dimensions of duct / conduit and number of wires.	No	1"x6" walker duct; 30 wires
Hanhole 1 to Handhole 2 (Distance = 3')		
Was video scoping completed for the entire duct / conduit run?	Yes	Refer to WMATA College Park Power 1st HH to 3rd HH Via 2nd HH Video.avi file.
Was pull string installed?	Yes	
Were there any obstructions or blockages? Provide details of type and specific location.	No	
Is the duct / conduit at capacity? Provide additional details about the dimensions of duct / conduit and number of wires.	No	1"x6" walker duct; 30 wires
Handhole 2 to Handhole 3 (Distance = 45')		
Was video scoping completed for the entire duct / conduit run?	Yes	Refer to WMATA College Park Power 1st HH to 3rd HH Via 2nd HH Video.avi file.
Was pull string installed?	Yes	
Were there any obstructions or blockages? Provide details of type and specific location.	No	
Is the duct / conduit at capacity? Provide additional details about the dimensions of duct / conduit and number of wires.	No	1"x6" walker duct; 30 wires
Handhole 3 to Handhole 4 (Distance = 10')		
Was video scoping completed for the entire duct / conduit run?	Yes	Refer to WMATA College Park 3rd HH to 4th HH Video.avi file.
Was pull string installed?	Yes	
Were there any obstructions or blockages? Provide details of type and specific location.	No	
Is the duct / conduit at capacity? Provide additional details about the dimensions of duct / conduit and number of wires.	No	1"x6" walker duct; 35 wires
Observations / Issues / Next Steps		
Handhole 4 to handhole 5 (Distance = 5'): Fully video scoped, no obstructions, pull string installed, 1"x6" walker duct; not at capacity, 35 wires, Refer to WMATA College Park 4th HH to 5th HH and 5th to AFC Panel Video.avi file. **Handhole 5 to AFC Panel** (Distance = 10'): Video scoped to 90 degree sweep into panel, no obstructions, pull string installed, 1"x6" walker duct; not at capacity, 35 wires, Refer to WMATA College Park 4th HH to 5th HH and 5th to AFC Panel Video.avi file. Total power conductor run is about 120'		
Sign Off		
	GFP Representative	**WMATA PRGM**
Name:	Dion Small	
Signature:		
Date:	11/06/2014	

Photo #1: E09 College Park – Power duct run between Kiosk and Handhole 1 and Handhole 2

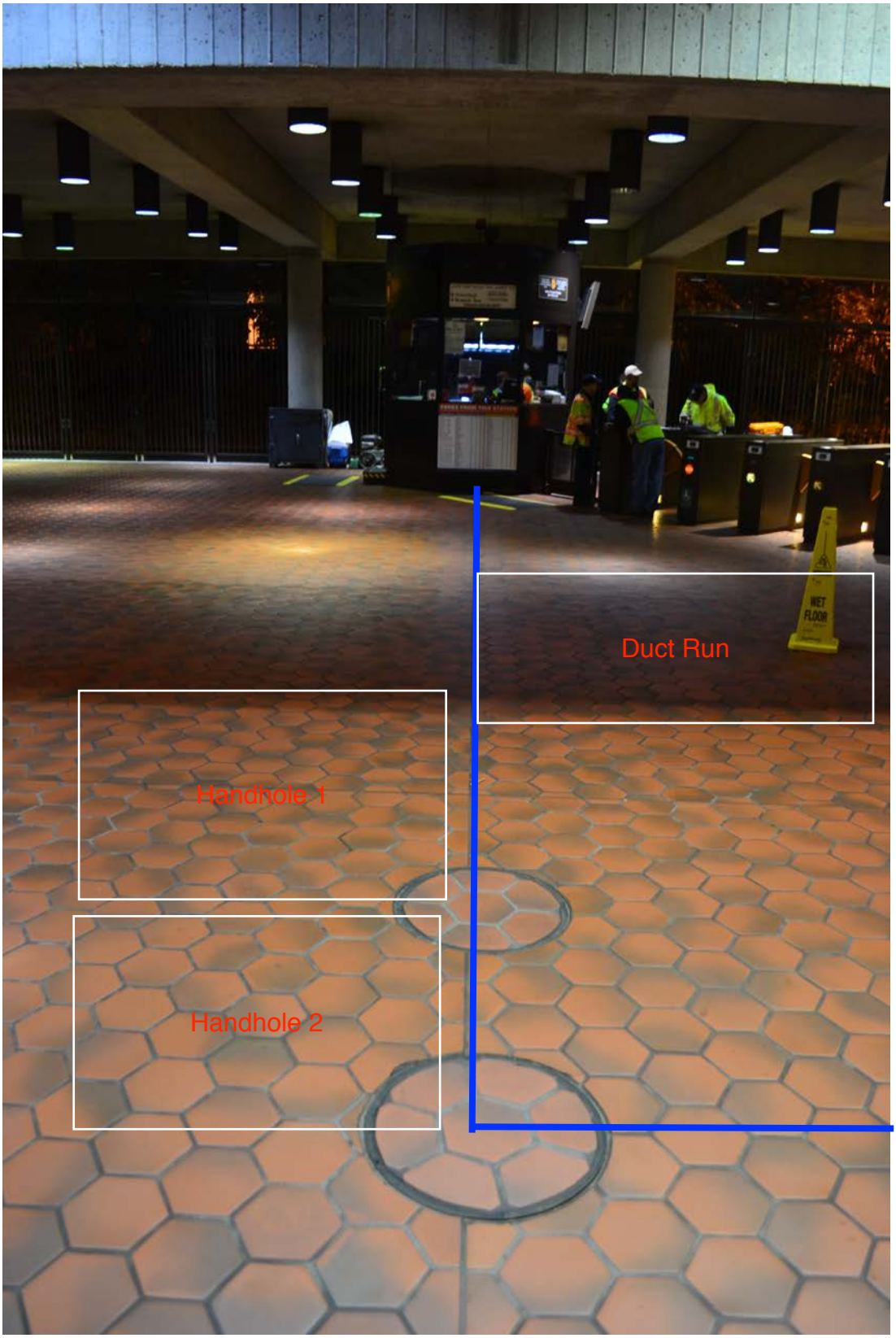


Photo #2: E09 college Park – Power duct run between Kiosk and Handhole 3 and Handhole 4

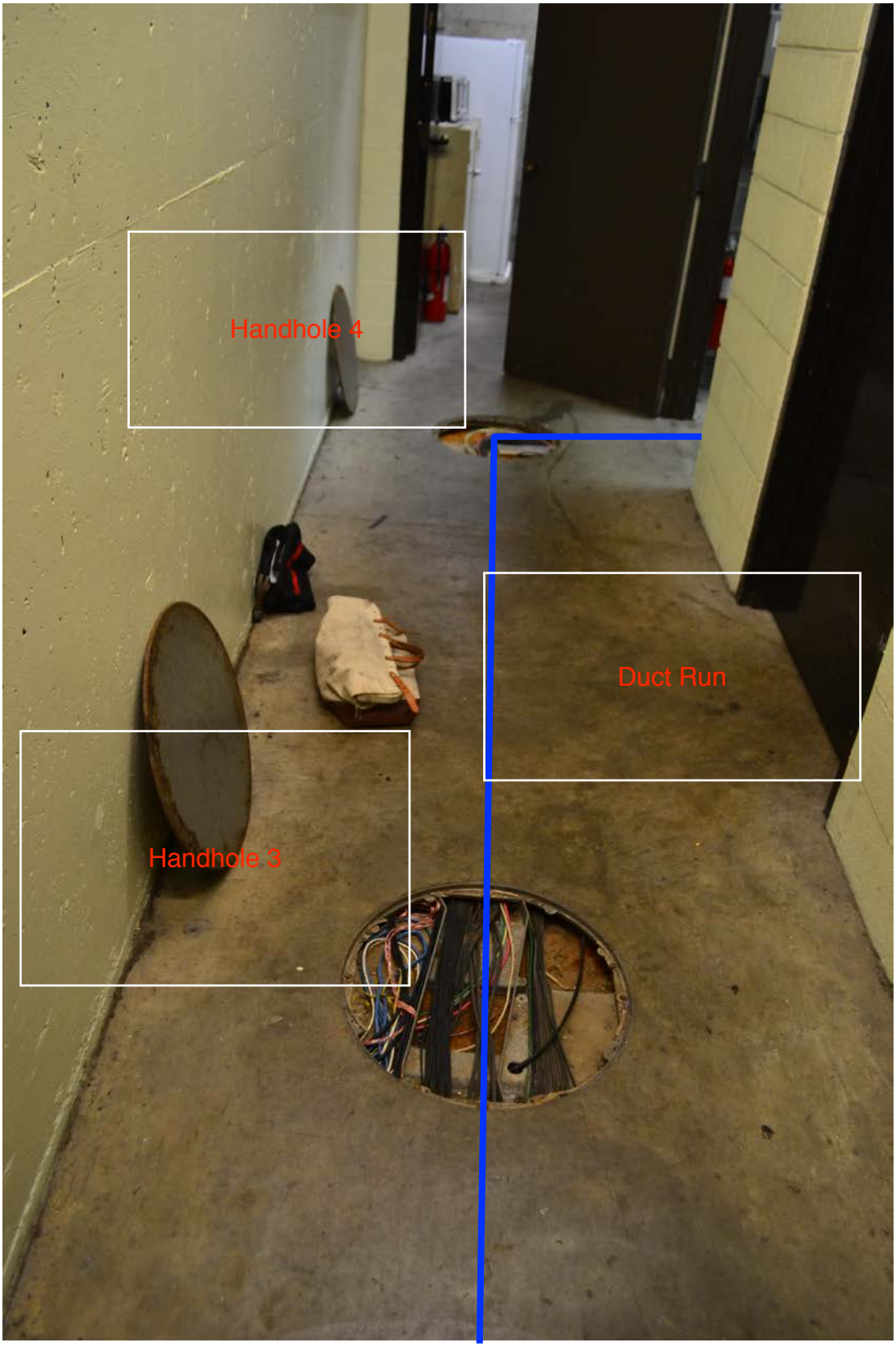
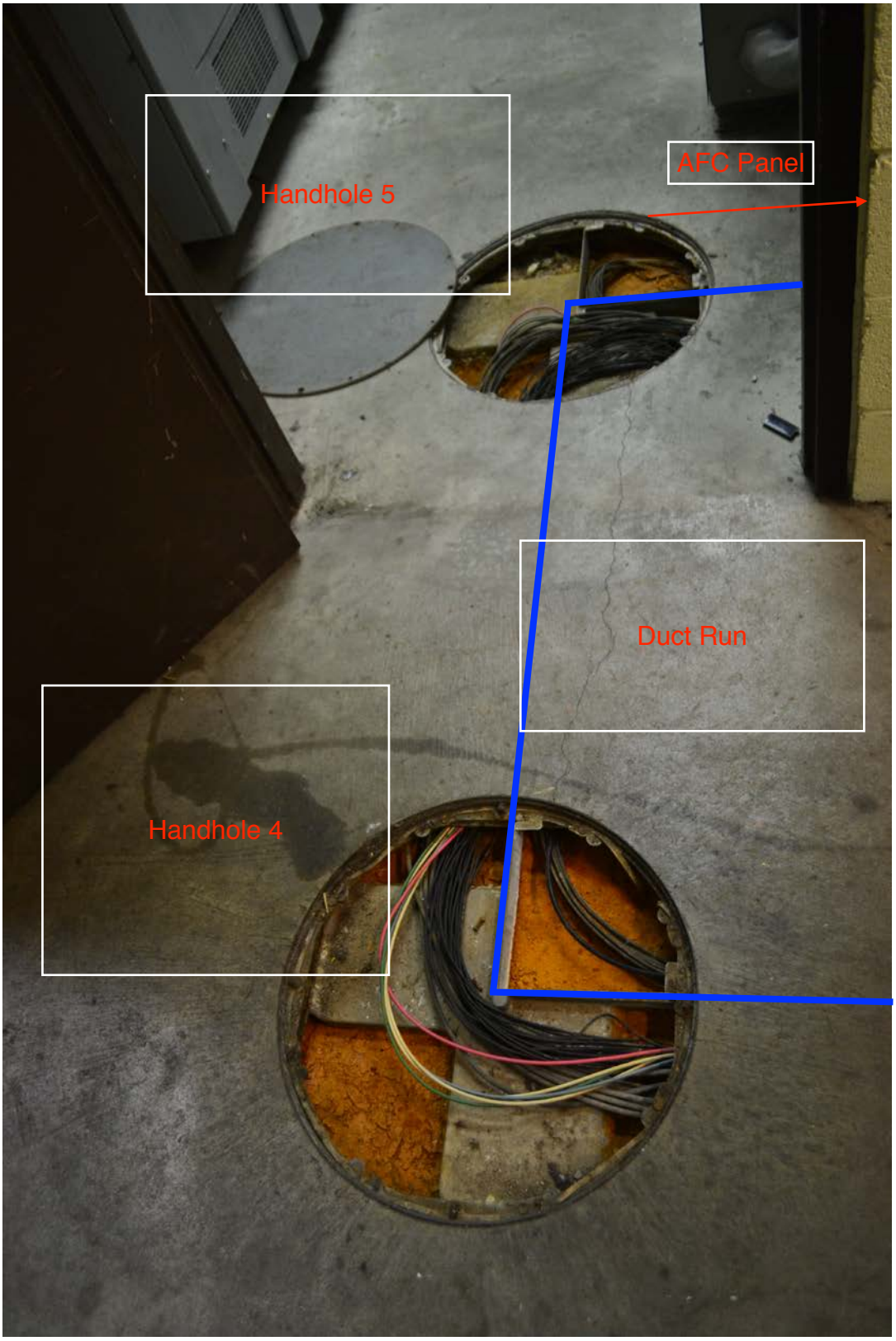


Photo #3: E09 College Park – Power duct run between Kiosk and Handhole 4 and Handhole 5



ROOM SCHEDULE

1. PEDESTRIAN CROSS PASSAGEWAY
2. ELEVATOR LOBBY
3. ELEVATOR MACHINE ROOM - 3
4. MECHNICAL ROOM - A
5. ELEVATOR MACHINE ROOM - 2
6. MECHNICAL ROOM - B
7. STATION ENTRANCE
8. FREE ZONE
8A. FARE PAID ZONE
9. MAINTENANCE ROOM
10. ELECTRICAL ROOM
11. ELEVATOR MACHINE ROOM - 1
12. FIRE EQUIPMENT CABINET - A
13. CORRIDOR
14. FARE PAID ZONE - B
15. MEN'S WASHROOM
16. WOMEN'S WASHROOM
17. CLEANERS AND WATER SERVICE ROOM - A
38. BELL SYSTEM ROOM
39. STAIR / ESCALATOR WELL - 1
40. STAIR / ESCALATOR WELL - 2

THIS AREA "ON HOLD" PENDING CHANGE ORDER APPROVAL

MATCH LINE SEE THIS DRAWING

WMATA INBOUND TRACK ABOVE

MATCH LINE SEE THIS DRAWING

1'-6" x 1'-6" COLUMNS ON PLATFORM ABOVE

PLATFORM ABOVE

WMATA OUTBOUND TRACK ABOVE

Handhole 5

AFC Panel

Handhole 2

Handhole 4

Handhole 3

Handhole 1

35'

10'

45'

3'

45'

2 BUS TRANSFER DISPENSERS

METAL WALL PARTITION

2 ADD FARE MACHINES

2 NEWSPAPER VENDORS

METAL PARTITION WALL

2 TELEPHONES AND MAP DISPLAY

4 FARECARD VENDORS

2 TELEPHONES AND MAP DISPLAY

NON-RUSH HOUR PARKING COLLECTORS

4 FARE GATES

LIMIT OF 4" FINISHED FLOOR

KIOSK n.i.c.

GRANITE BASE

CURB

DRAINAGE TRENCH

SECURITY ENCLOSURE

THIS AREA "ON HOLD" PENDING CHANGE ORDER APPROVAL

MEZZANINE PLAN

INFORMATION ONLY

KEY PLAN

IE00

DESIGNED	H.K.A.	6-20-86
DRAWN	G.P.	6-20-86
CHECKED		DATE
APPROVED		DATE

REFERENCE DRAWINGS		REVISIONS		
NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

WMATA

APPROVED

APPROVED

DE LEUW, CATHER & COMPANY
GENERAL ENGINEERING CONSULTANT

HARRY WEESE & ASSOCIATES
GENERAL ARCHITECTURAL CONSULTANT

SUBMITTED

COLLEGE PARK STATION

A.F.C. LAYOUT

SCALE 1/8" = 1'-0"

DRAWING NO. 19